```
stty: missing argument to 'erase'
Try 'stty --help' for more information.
[inferno@winus bin]$
[inferno@winus bin]$
[inferno@winus bin]$ emu-
Running: \n/home/fusion/inferno/inf2.3-356/Linux/386/bin/emu -r/home/fusion/inferno/inf2.3-356 -g1024x700 -i4096x8192x8192 -pmain=32000000 -c1
Inferno Release 2.3 Build 265i (LOCAL BUILD) main (pid=11483) compile
Initialize Dis: /dis/mash.dis
Inferno Release 2.3 Build 265i (LOCAL BUILD) main (pid=11 Initialize Dis: /dis/mash.dis mash cd /tmp cd /tmp mash sh -n ecmd_winus1 sh -n ecmd_winus1 sh -n ecmd_winus1 sh -n ecmd_winus1 sip: proxy set to 135.2.180.22:5060 sipe: local domain @lucent.com@*:5060 sipe: local domain @lucent.com@135.2.180.25:udp/5060 sipe: listen process 962 sipe: monitor process 962 sipe: monitor process 963 sipe: connect to 5060 at udp:135.2.180.22:5060 sipe: explicitport() -> SIP/2.0/UDP 135.2.180.25 sipe: explicitport() -> SIP/2.0/UDP 135.2.180.25 sipe: explicitport() -> SIP/2.0/UDP 135.2.180.22 sipe: current state REGISTER 0 sipe: explicitport() -> SIP/2.0/UDP 135.2.180.22 sipe: seplicitport() -> 135.2.180.25 sipe: explicitport() -> 135.2.180.25 sipe: explicitport() -> 135.2.180.25 sipe: seplicitport() -> 135.2.180.25 Sipe: seplici
       sipc: sent: REGISTER
sipc: sound process 968
sipc: receiving:
[SIP/2.0 100 Trying
TO: <sip:80256lucent.com>
From: <sip:80256lucent.com>
Call-ID: 17535291900135.2.180.25
CSeq: 1 REGISTER
Via: SIP/2.0/UDP 135.2.180.25
sipc: /tmp/sc is the command interpreter
sipc: command process 969
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
    mash% |
sipc: switching to new received call 1753529190@135.2.180.25->1753529190@135.2.180.25
sipc: via host 135.2.180.25
sipc: viahost returns @135.2.180.25:udp/5060
sipc: connect back to 5060 at udp!135.2.180.22!5060
sipc: new connection to udp!135.2.180.22!5060
sipc: state REGISTER 100 Trying
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@1ucent.com>; tag=3a06da4d
From: <sip:8025@1ucent.com>
call-ID: 1753529190@135.2.180.25
CSeq: 1 REGISTER
Via: SIP/2.0/UDP 135.2.180.25
Contact: <sip:8025@135.2.180.25
contact: <sip:8025@135.2.180
contact: <sip:8025@135.2.180
c
         ]
sipc: state REGISTER 200 OK
sipc: receiving:
[INVITE sip:80256135.2.180.25 SIP/2.0
TO: <sip:802561ucent.com>
From: <sip:802061ucent.com>
CSeq: 1 INVITE
Via: SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP 135.2.180.20
Contact: <sip:80200135.2.180.20>
Contact: <sip:80200135.2.180.20>;action=proxy
Content-Type: application/sdp
Record-Route: <sip:802561ucent.com;maddr=135.2.180.22>
User-Agent: Inferno Webphone 2630
Content-Length: 174
              o=- 1839005561 1839005561

s=Inferno Ephone Session

c=IN IP4 135.2.180.20

t=973511289 0

m=audio 3456 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
                                                       1839005561 1839005561 IN IP4 135.2.180.20
         | sipc: received sid = 1839005561 |
sipc: switching to new received call 17535291900135.2.180.25->17535112890135.2.180.20 |
sipc: switching to new received call 17535291900135.2.180.25->17535112890135.2.180.20 |
sipc: current state INVITE 180 Ringing |
sipc: sundirectived (r, -1) |
sipc: explicitport() -> 135.2.180.25 |
sipc: explicitport() -> 802001ucent.com |
sipc: explicitport() -> 802001ucent.com |
sipc: sending: |
S1P/2.0 180 Ringing |
Route: <sip:802501ucent.com; maddr=135.2.180.2> |
Route: <sip:802501ucent.com; accion=proxy |
Via: SIP/2.0/UDP demol:5060;branch=2c8.fc;maddr=135.2.180.20 |
Via: SIP/2.0/UDP 155.2.180.20 |
From: <sip:802001ucent.com> |
Co: <sip:802501ucent.com> |
Co: <sip:802501ucent.com> |
Coll-ID: 17535112890135.2.180.20 |
CSeq: 1 INVITE |
Contact: <sip:80250135.2.180.25> |
                Contact: <sip:8025@135.2.180.25>
Content-Length: 0
```

```
sipc: sent: INVITE 180 Ringing
sipc: f=ringer
echo a >/tmp/sc
echo a >/tmp/sc
sipc> a
sipc: sound received (, 0)
sipc: current state INVITE 200 OK
sipc: explicitport() -> 135.2.180.25
sipc: explicitport() -> 80200lucent.com
sipc: explicitport() -> 8020elucent.com
sipc: explicitport() -> 8025elucent.com
sipc: explicitport() -
           sipc: announced udp!*!3466 /net/udp/3 port 3466
           sipc: audiolisten start size 172
sipc: announced udp!*!3467 /net/udp/5 port 3467
     sipc: announced udp!*!3467 /net/udp/5 port 3467
sipc: sending:
SIP/2.0 200 OK
ROULE: <sip:80258lucent.com;maddr=135.2.180.22>
Route: <sip:80208135.2.180.20>;action=proxy
Via: SIP/2.0/UDP demo1:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP 135.2.180.20
Prom: <sip:80208lucent.com>
To: <sip:802208lucent.com>
Call-ID: 17335112898135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80259135.2.180.25>
Content-Type: application/sdp
Content-Length: 174
           v=0
o=- 1839005561 1839005561 IN IP4 135.2.180.25
s=Inferno Ephone Session
           o=- 1839005561 18390055

s=Inferno Ephone Sessic

c=IN 1P4 135.2.180.25

t=973529386 0

m=audio 3466 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
m=audio 3466 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20

sipc: sent: INVITE 200 OK
mash% sipc: hear: test from 135.2.180.25:3466
sipc: hear: test from 135.2.180.25:346
                    sipc: hear: test from 135.2.180.25:3466
```

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```
sipc: hear: test from 135.2.180.25;3466
sipc: 
               v=0

o=- 1839005677 1839005677 IN IP4 135.2.180.20

s=Inferno Ephone Session

c=IN IP4 135.2.180.20

t=973512429 0

m=audio 3456 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
               From: <sip:8020@lucent.com>
To: <sip:8025@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 1 INVITE
Contact: <sip:8025@135.2.180.25>
Content-Length: 0
               sipc: sent: INVITE 180 Ringing
sipc: receiving:
[INVITE sip:8025@135.2.180.25 SIP/2.0
TO: <sip:8025@lucent.com>
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 1 INVITE
Via: SIP/2.0/UDP demo1:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0/UDP 135.2.180.20
Contact: <sip:8020@135.2.180.20
Contact: <sip:8020@135.2.180.20>;action=proxy
Content-Type: application/sdp
Record-Route: <sip:8025@lucent.com;maddr=135.2.180.22>
User-Agent: Inferno Webphone 2630
Content-Length: 174
                  v=0

o=- 1839005677 1839005677 IN IP4 135.2.180.20

s=Inferno Ephone Session

c=IN IP4 135.2.180.20

t=973512429 0

m=audio 3456 RTP/AVP 0

a=trmmp.0 Boots/2000
                      a=rtpmap:0 PCMU/8000
a=ptime:20
```

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```
l sipc: received sid = 1839005677
sipc: received a dupplicate INVITE
sipc: would restart sip listener
sipc: via host demol:5060;branch=2c8.fc;maddr=135.2.180.22
sipc: viahost returns @demol:dp/5060;branch=2c8.fc;maddr=135.2.180.22
sipc: INVITE 180 Ringing resent
      mash% echo a >/tmp/sc
echo a >/tmp/sc
sipc> a
    sipc> a
sipc: sound received (, 0)
sipc: current state INVITE 200 OK
sipc: explicitport() -> 135.2.180.25
sipc: explicitport() -> 80200lucent.com
sipc: explicitport() -> 80250lucent.com
sipc: session 1839005677 data audio:
    m=audio 3456 RTP/AVP 0
    rdata audio:
    ... m=audio 1466 RTP/AVP 0
                                                                  : m=audio 3466 RTP/AVP 0
       sipc: start RTP/AVP/0 audio: 1 135.2.180.20:3456 135.2.180.25:3466
sipc: announced udp!*!3466 /net/udp/6 port 3466
sipc: audiolisten start size 172
sipc: announced udp!*!3467 /net/udp/7 port 3467
sipc: sending:
SIP/2.0 200 OK
ROUte: <sip:80258lucent.com; maddr=135.2.180.22>
ROUte: <sip:80208135.2.180.20>;action=proxy
Via: SIP/2.0 /UDP demol:5060;branch=2c8.fc;maddr=135.2.180.22
Via: SIP/2.0 /UDP 135.2.180.20
From: <sip:80208lucent.com>
To: <sip:80208lucent.com>
To: <sip:80258lucent.com>
Call-ID: 17353124298135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80258135.2.180.25>
Content-Type: application/sdp
Content-Length: 174
    v=0

o=- 1839005677 1839005677 IN IP4 135.2.180.25

s=Inferno Ephone Session

c=IN IP4 135.2.180.25

t=973530530 0

m=audio 3466 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
    sipc: sent: INVITE 200 OK
mash% sipc: hear: test from 135.2.180.25:3466
sipc: stop: > /tmp/sc
sipc> z
sipc> z
sipc: stop audio: 1 135.2.180.20:3456:RTP/AVP/0 135.2.180.25:3466:RTP/AVP/0
    sipc: stop addio: 1 00 kill: process 0: file does not exist sipc: current state BYE 0 sipc: explicitport() -> 135.2.180.25 sipc: explicitport() -> 135.2.180.25 sipc: explicitport() -> 8020@lucent.com sipc: explicitport() -> 8025@lucent.com sipc: sending: BYE sip:8025@lucent.com sipc: sending: SYE sip:8025@lucent.com; maddr=135.2.180.22 Route: <sip:8025@lucent.com; maddr=135.2.180.22 Route: <sip:8020@lucent.com> to: <sip:8020@lucent.com> To: <sip:8025@lucent.com> To: <sip:8025@lucent.com> Co: <sip:8025@lucen
         sipc: sent: BYE
sipc: receiving:
[SIP/2.0 200 OK
To: <sip:802581ucent.com>;tag=3a06da4d
From: <sip:802081ucent.com>
mash% Call-ID: 17535124298135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
       ]
sipc: switching to new received call 17535112890135.2.180.20->17535124290135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:80250lucent.com>;tag=3a06da4d
From: <sip:80200lucent.com>
Call-ID: 17535124290135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
```

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```
]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@lucent.com>;tag=3a06da4d
From: <sip:8020@lucent.com>
call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
l sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20 sipc: state BYE 200 OK sipc: receiving: [SIP/2.0 200 OK TO: <sip:8025@1ucent.com>;tag=3a06da4d Prom: <sip:8020@1ucent.com>;tag=3a06da4d Prom: <sip:8020@1ucent.com> CSCq: 2 BYE Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25 Server: Lucent Technologies, Inc. iSIP 1.0/betal Content-Length: 0
}
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@1ucent.com>;tag=3a06da4d
From: <sip:8020@1ucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
| sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20 sipc: state BYE 200 OK sipc: receiving: [SIP/2.0 200 OK TO: <sip: 8025@1ucent.com>; tag=3a06da4d From: <sip: 8025@1ucent.com> Call-ID: 1753512429@135.2.180.20 CSeq: 2 BYE Wis SIP(2.0 UNP) 126.2.180.20
 California 1.00
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20; received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/beta1
Content-Length: 0
 | Sipc: Switching to new received call 17535112890135.2.180.20->17535124290135.2.180.20 sipc: state BYE 200 OK sipc: receiving: [SIP/2.0 200 OK To: <sip:802501ucent.com>;tag=3a06da4d From: <sip:802501ucent.com>;tag=3a06da4d From: Sip:802001ucent.com> CSeq: 2 BYE Via: SIP/2.0/UDP 135.2.180.20 CSeq: 2 BYE Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25 Server: Lucent Technologies, Inc. iSIP 1.0/beta1 Content-Length: 0
 ]
sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20
sipc: state BYE 200 OK
sipc: receiving:
[SIP/2.0 200 OK
TO: <sip:8025@lucent.com>;tag=3a06da4d
From: <sip:8020@lucent.com>
Call-ID: 1753512429@135.2.180.20
CSeq: 2 BYE
Via: SIP/2.0/UDP 135.2.180.20;received=135.2.180.25
Server: Lucent Technologies, Inc. iSIP 1.0/betal
Content-Length: 0
 ] sipc: switching to new received call 1753511289@135.2.180.20->1753512429@135.2.180.20 sipc: state BYE 200 OK echo q >/tmp/sc echo q >/tmp/sc sipc> q sipc: sound received (, 0) mash% sipc: sound received (, 0) sipc: sound process ends kill: process 968: file does not exist kill: process 1001: file does not exist sipc: stop audio: 1 135.2.180.20:3456:RTP/AVP/0 135.2.180.25:3466:RTP/AVP/0
   kill: process 0: file does not exist
  mash% sip 8025
sip 8025
sipc: this client: 8025@135.2.180.25:udp/8025
sipc: using Styx locator for SIP clients
mash% echo q >/tmp/sc
echo q >/tmp/sc
echo q >/tmp/sc
file does not exist
kill: process 1019: file does not exist
  mash% sip -v 8025
sip -v 8025
sipc: this client: 80250135.2.180.25:udp/8025
sipc: using Styx locator for SIP clients
mash% sipc: receiving:
[INVITE sip:80250135.2.180.25:8025 SIP/2.0
via: SIP/2.0/UDP 135.2.180.20:8020
From: <sip:80200135.2.180.20:8020>
```

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```
To: <sip:80258135.2.180.25:8025>
Call-ID: 17535127698135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80208135.2.180.20:8020>
User-Agent: Inferno Webphone 2630
Subject: Inferno Webphone INVITE
Content-Type: application/sdp
Content-Length: 174
      v=0
o=- 1839005505 1839005505 IN IP4 135.2.180.20
  o=- 183900505 183900505

=Inferno Ephone Session

c=IN IP4 135.2.180.20

t=973512769 0

m=audio 3456 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
  l sipc: sending: SIP/2.0 180 Ringing Via: SIP/2.0 180 Ringing Via: SIP/2.0/UDP 135.2.180.25:8025 From: <sip:80208135.2.180.20:8020> To: <sip:80258135.2.180.25:8025> Call-ID: 175351276598135.2.180.20 CSeq: 1 INVITE Contact: <sip:80258135.2.180.25:8025> Content-Length: 0
      sipc: sent: INVITE 180 Ringing
echo a >/tmp/sc
echo a >/tmp/sc
  echo a >/tmp/sc
sipc: sending:
SIP/2.0 200 0K
Via: SIP/2.0/UDP 135.2.180.25:8025
From: <sip:80206135.2.180.20:8020>
To: <sip:80256135.2.180.25:8025>
Call-ID: 17535127696135.2.180.20
CSeq: 1 INVITE
Contact: <sip:80250135.2.180.25:8025>
Content-Type: application/sdp
Content-Length: 174
      v=0
o=- 1839005505 1839005505 IN IP4 135.2.180.25
    O== 183900505 183900505

=Inferno Ephone Session

c=IN IP4 135.2.180.25

t=973530865 0

m=audio 3466 RTP/AVP 0

a=rtpmap:0 PCMU/8000

a=ptime:20
  sipc: sent: INVITE 200 OK
mash% sipc: hear: test from 135.2.180.25:3466
sipc: receiving:
(ACK sip:8025@135.2.180.25:8025 SIP/2.0
Via: SIP/2.0/UDP 135.2.180.25:8025
Via: SIP/2.0/UDP 135.2.180.20:8020
From: <sip:8020@135.2.180.20:8020
To: <sip:8025@135.2.180.20:8020
Co: <sip:8025@135.2.180.25:8025
Call-ID: 1753512769@135.2.180.20
CSeq: 1 INVITE
Contact: <sip:8020@135.2.180.20:8020
Contact: <sip:8020@135.2.180.20:8020
Content-Length: 0
  l sipc: state ACK 0 sipc: speak: test from 135.2.180.20:3456 sipc: hear: test from 135.2.180.20:3456 sipc: speak: test fro
      }
sipc: sending:
SIP/2.0 200 OK
Via: SIP/2.0/UDP 135.2.180.25:8025
From: <sip:8020@135.2.180.20:8020>
To: <sip:8025@135.2.180.25:8025>
Call-ID: 1753512765@135.2.180.20
CSeq: 2 BYE
Contact: <sip:8025@135.2.180.25:8025>
Contact: <sip:8025@135.2.180.25:8025>
Content-Length: 0
          sipc: sent: BYE 200 OK
sipc: would restart sip listener
```

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